BATTERY DISCHARGE VALUE MEASUREMENT DEVICE

Report a data error here

Abstract of JP2000014019

PROBLEM TO BE SOLVED: To correct a detection error. SOLUTION: An output power P1 and a discharge watthour Wh1 are detected. Further, a temperature and an internal resistance deterioration factor &gamma 1 at that time are also detected. A corresponding temperature deterioration factor &alpha 1 is obtained by a temperature table. By using the output power P1, P1/(&alpha 1.&gamma 1) is calculated to correct the internal resistance deterioration and the temperature deterioration into initial states and the estimated value of a discharge watthour Wh (P1/(&alpha 1.&gamma 1)) is obtained in accordance with initial characteristics C. The obtained value is a discharge watthour before the capacitance deterioration and, if the value is multiplied by a capacitance deterioration factor &beta , an actual discharge watthour shown by characteristics D is obtained. The correction formula and a correction formula obtained by adding a detection error correction value &Delta Wh to the detection value Wh1 are made to be equal to each other to obtain a 1st calculation formula. When the discharge is progressed in a predetermined manner, 2nd and 3rd calculation formulae are obtained. By satisfying the formulae simultaneously, the detection error correction value &Delta Wh and the capacitance deterioration factor &beta can be obtained. By correcting the detection value of the discharge watthour with the detection error correction value &Delta Wh, the actual discharge watthour detection value can be obtained.
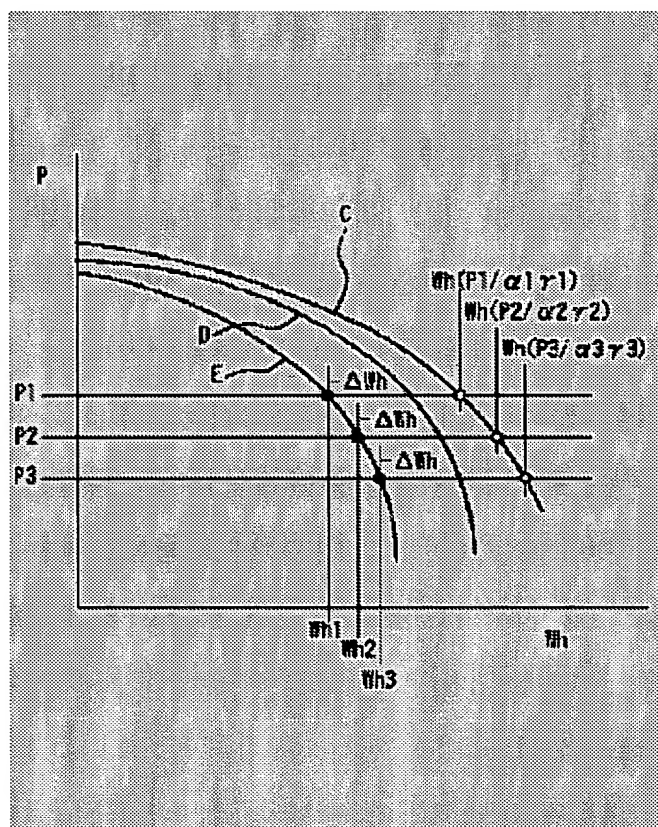
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